MICROSERVICES DESIGN

Outline

- Microservices Design Patterns Overview
- Microservice Decomposition Patterns
- Domain Driven Design (DDD) Overview

MIRCOSERVICES PATTERNS

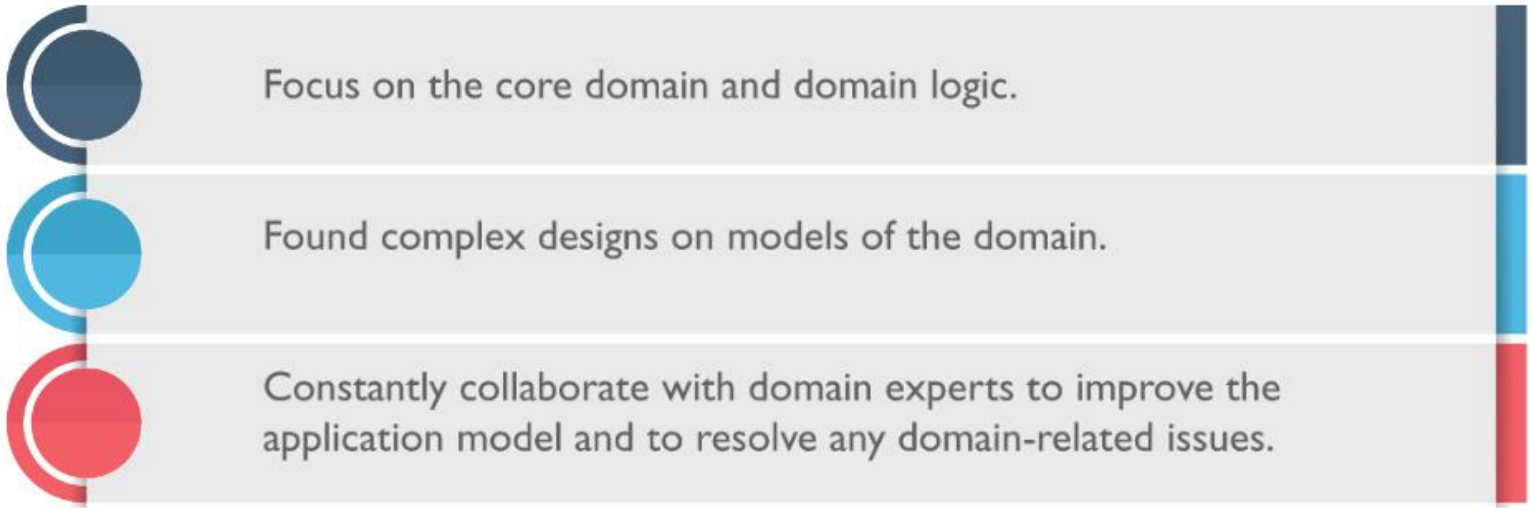
Microservices Patterns

- http://microservices.io/patterns

DOMAIN DRIVEN DESIGN

What is Domain Driven Design (DDD)

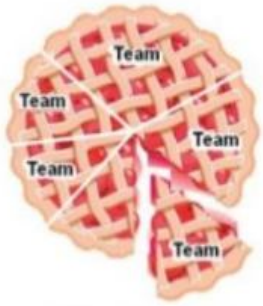
- Aims to ease the creation of complex applications
- Connects the related pieces of the software into an ever-evolving model.
- DDD focuses on three core principles:



Why Domain Driven Design (DDD)

With the evolution of microservices, the traditional design SOA concept of identifying the services and expose based on reuse was not sufficient since microservices is a business driven concept

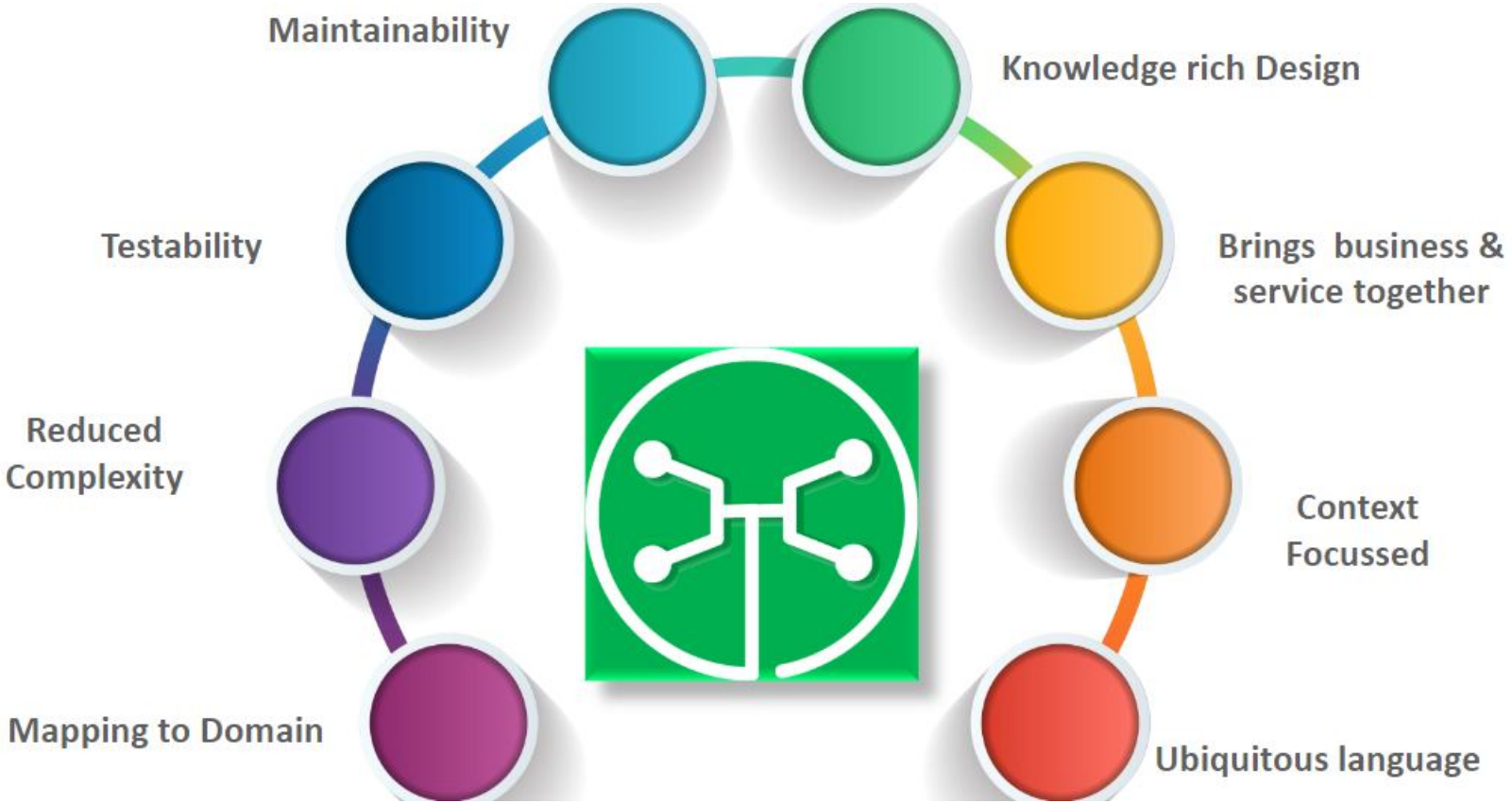
There exists the need for a design methodology which brings business and services together. This is where the domain driven design concept fits well and helps in designing Microservices.



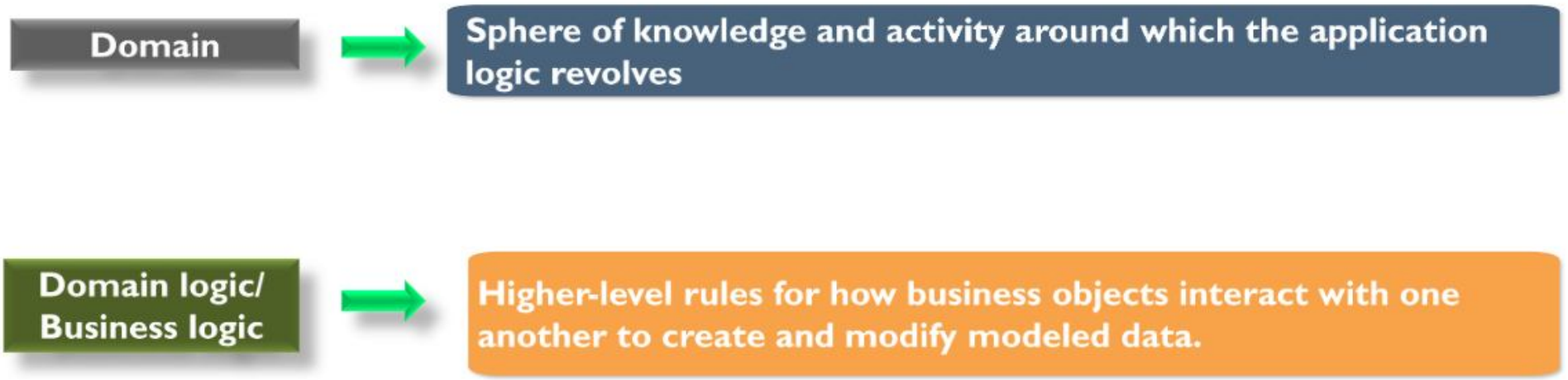
Traditional SOA

Microservices

Why Domain Driven Design (DDD)



What is a Domain



Domain Driven Concepts

Context

The setting in which a word or statement appears that determines its meaning.

Statements about a model can only be understood in a context.

Model

A system of abstractions that describes selected aspects of a domain and can be used to solve problems related to that domain.

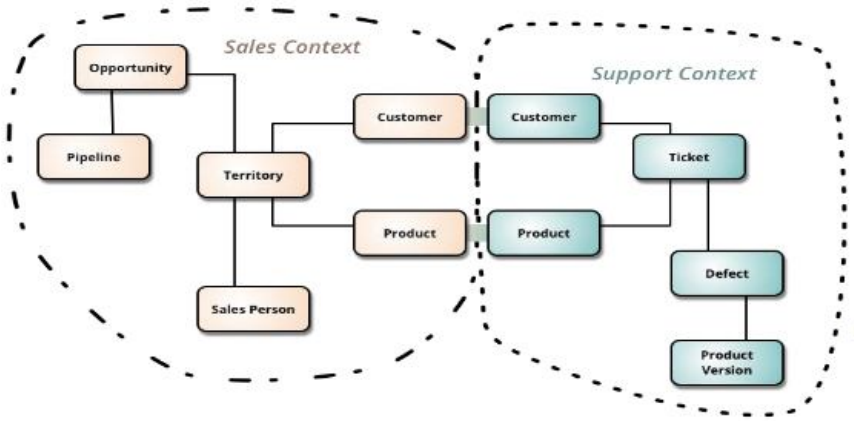
Ubiquitous Language

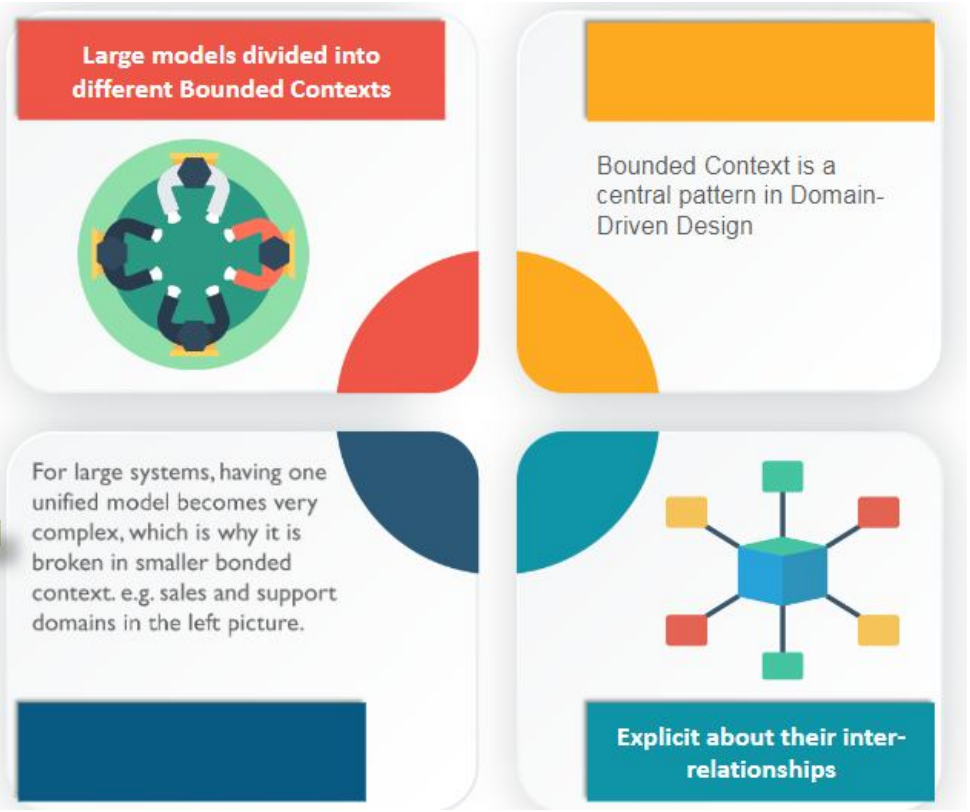
A language structured around the domain model and used by all team members to connect all the activities of the team with the software.

Bounded Context

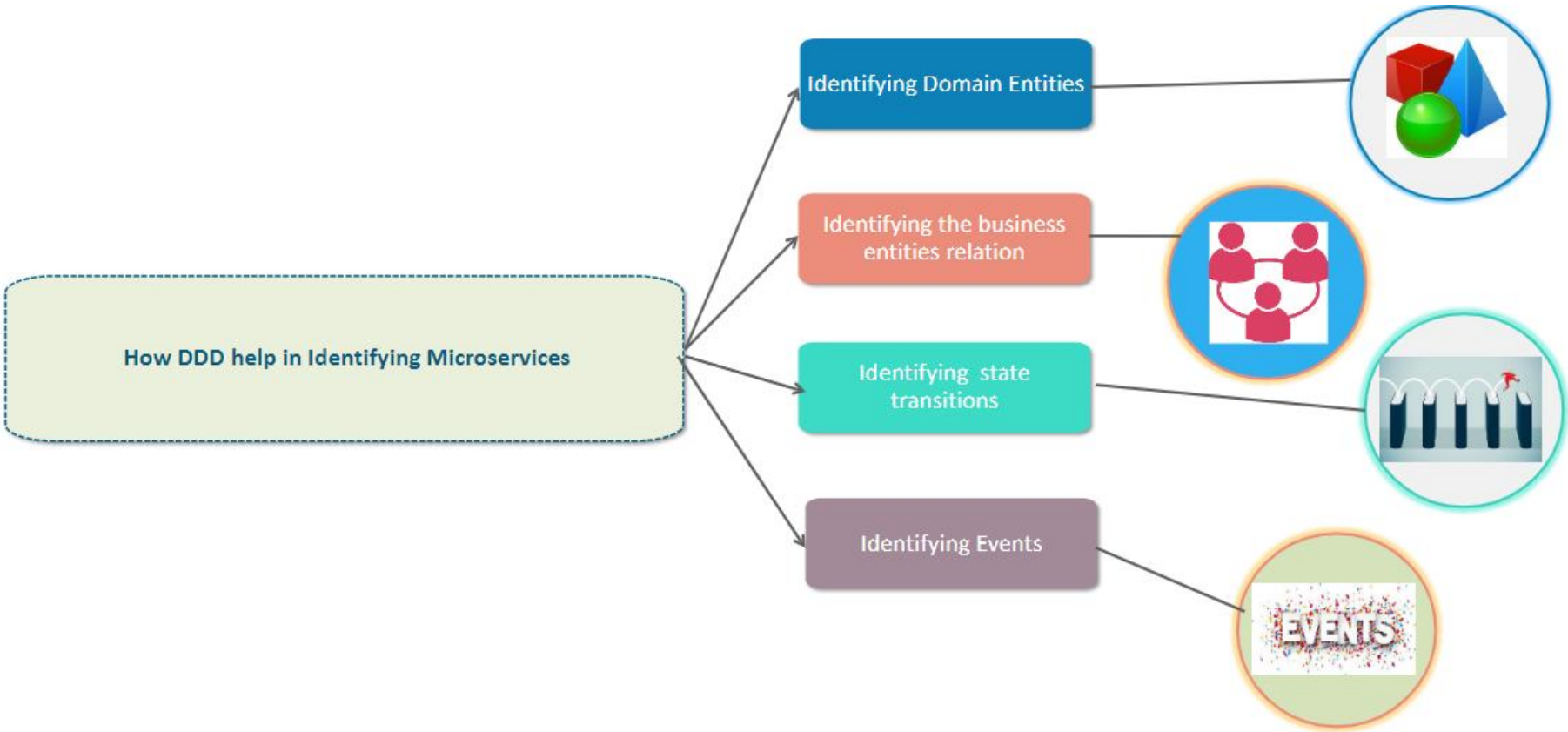
A description of a boundary (typically a subsystem, or the work of a specific team) within which a particular model is defined and applicable.

What is Bounded Context





How DDD help in Identifying Microservices



Thank You!